Listing of Claims:

- 1. (original) A tubing injector for injecting coiled tubing into a subsea flowline, comprising: a traction device including opposed grippers laterally moveable with respect to the coiled tubing to move a respective chain link member of an endless loop chain into gripping engagement with the coiled tubing; a drive motor for powering the endless loop chain; a plurality of roller bearings each acting between a respective chain link member and a gripper, each roller bearing including a shaft and seals subjected to subsea conditions; and a pressure compensating device for subjecting fluid in a fluid passageway in the roller bearing to a fluid pressure functionally related to subsea pressure, such that a controlled pressure differential exists across the seals which seal the fluid from the subsea conditions.
- 2. (original) A tubing injector as defined in claim 1, wherein the pressure compensating device includes a piston moveable within a bore in the shaft of the roller bearing, with one face of the piston exposed to lubricant and an opposing face of the piston exposed to subsea conditions.
- 3. (original) A tubing injector as defined in claim 2, further comprising: a seal for maintaining substantially sealed engagement between the piston and the shaft to fluidly isolate the fluid from the subsea conditions.
- 4. (original) A tubing injector as defined in claim 2, further comprising: a biasing member within the shaft for exerting a selected bias on the piston.
- 5. (original) A tubing injector as defined in claim 1, wherein the pressure compensating device includes a diaphragm positioned within the shaft for sealing fluid from subsea conditions, such that movement of the diaphragm provides pressure compensation to the fluid.
- 6. (original) A tubing injector as defined in claim 1, further comprising: a fluid inlet port in the shaft for selectively inputting fluid into the fluid passageway in the roller bearing assembly; and a check valve from preventing the fluid from passing outward from the fluid passageway.
- 7. (original) A tubing injector for injecting coiled tubing into a subsea flowline, comprising: a traction device including opposed grippers laterally moveable with respect to the coiled tubing to move a respective chain link member of an endless loop

chain into gripping engagement with the coiled tubing; a drive motor for powering the endless loop chain; a plurality of roller bearings each acting between a respective chain link member and a gripper, each roller bearing including a shaft and seals subjected to subsea conditions; a fluid inlet port in the shaft for inputting fluid into a fluid passageway in the roller bearing assembly; and a pressure compensating device for subjecting fluid in the fluid passageway in the roller bearing to a fluid pressure functionally related to subsea pressure, such that a controlled pressure differential exists across the seals which seal the fluid from the subsea conditions.

- 8. (original) A tubing injector as defined in claim 7, wherein the pressure compensating device includes a piston moveable within a bore in the shaft of the roller bearing, with one face of the piston exposed to lubricant and an opposing face of the piston exposed to subsea conditions.
- 9. (original) A tubing injector as defined in claim 8, further comprising: a seal for maintaining substantially sealed engagement between the piston and the shaft to fluidly isolate the fluid from the subsea conditions.
- 10. (original) A tubing injector as defined in claim 8, further comprising: a biasing member within the shaft for exerting a selected bias on the piston.
- 11. (original) A tubing injector as defined in claim 8, wherein the pressure compensating device includes a diaphragm positioned within the shaft for sealing fluid from subsea conditions, such that movement of the diaphragm provides pressure compensation to the fluid.
- 12. (original) A tubing injector as defined in claim 1, further comprising: a check valve from preventing the fluid from passing outward from the fluid passageway.
- 13. (original) A tubing injector as defined in claim 1, wherein the tubing injector injects coiled tubing into a subsea well.
- 14. (original) A method of injecting coiled tubing into a subsea flowline, comprising: providing a traction device including opposed grippers laterally moveable with respect to the coiled tubing to move a respective chain link member of an endless loop chain into gripping engagement with the coiled tubing while powering the endless loop chain; providing a plurality of roller bearings each acting between a respective

chain link member and a gripper, each roller bearing including a shaft and seals subjected to subsea conditions; and automatically pressure compensating fluid in a fluid passageway in the roller bearing to a fluid pressure functionally related to subsea pressure, such that a controlled pressure differential exists across the seals which seal the fluid from the subsea conditions.

- 15. (original) A method injector as defined in claim 14, further comprising: providing a piston moveable within a bore in the shaft of the roller bearing, with one face of the piston exposed to lubricant and an opposing face of the piston exposed to subsea conditions.
- 16. (original) A method as defined in claim 15, further comprising: maintaining substantially sealed engagement between the piston and the shaft to fluidly isolate the fluid from the subsea conditions.
- 17. (original) A method as defined in claim 15, further comprising: exerting a selected bias on the piston.
- 18. (original) A method as defined in claim 14, further comprising: providing a diaphragm positioned within the shaft for sealing fluid from subsea conditions, such that movement of the diaphragm provides pressure compensation to the fluid.
- 19. (original) A method as defined in claim 14, further comprising: selectively inputting fluid into the fluid passageway in the roller bearing assembly; and preventing the fluid from passing outward from the fluid passageway with a check valve.
- 20. (original) A method as defined in claim 14, wherein the coiled tubing is injected into a subsea well.